

Patent Claims:

1. Device for distributing lubricants in grooved rails, particularly for railborne traffic, characterized in that an elongated plate (6) is provided which can be arranged in the groove (10) of the rail (1) and which is provided with cutouts (22, 23) at least along one longitudinal edge, but preferably along both longitudinal edges (24, 25), which cutouts (22, 23) start at the longitudinal edge and are accordingly open-edged, the lubricant being supplied to these cutouts (22, 23), and in that the open-edged cutouts (22, 23) of the plate (6) are covered by a cover plate (7) which is preferably constructed so as to be elastic at least in the covering area.
2. Device according to claim 1, characterized in that the cover plate (7) which is constructed so as to be elastic in the area in which it covers the open-edged cutouts (22, 23) is covered by a substantially I-shaped plate (8), wherein the width (s) of the web (8a) of this I-shaped plate (8) corresponds to the minimum distance (a) between the open-edged cutouts (22, 23) of the plate (6) having the open-edged cutouts (22, 23) located opposite one another.
3. Arrangement for feeding lubricants to lubricant delivery openings, particularly in a device according to claim 1 or 2, characterized in that the feed device has a plurality of plates (2, 4, 5) which can be fixed in the groove (10) of the rail (1), particularly at the base (11) of the groove, one on top of the other as a stack (9), wherein the bottom plate (2) of the plates (2, 4, 5) that are placed one upon the other is provided with a flow divider (13) which is preferably constructed as an elongated cutout in the plate (2), wherein a feed opening (12) for the lubricant preferably opens into the flow divider (13), preferably in the center thereof, and the flow divider (13) communicates, via at least two openings (14, 15) which are at a distance from one another, with flow dividers (16, 17) which are arranged in another plate (4) of the stack (9) of plates (2, 4, 5) that are placed one upon the other, and in that the plate (4) having the additional flow dividers (16, 17) is followed in the stack (9) by a plate (5) which communicates, via through-openings (18 – 21), with the flow divider or flow dividers (16, 17) and which can also be connected to the

lubricant delivery openings (22, 23) and which covers the flow divider or flow dividers (16, 17) of the plate (4).

4. Device according to claim 3, characterized in that the flow dividers (16, 17) arranged in the other plate (4) are formed as a depression, particularly an I-shaped depression, in the plate (4), wherein the openings (14, 15) for feeding the lubricant to the flow dividers (16, 17) are formed as holes in the base of the depression.

5. Device according to claim 3, characterized in that the flow dividers (16, 17) arranged in the other plate (4) are formed as a hole, particularly an I-shaped hole, in the other plate (4), wherein the plate (4) is covered on one side by a base which is fixedly connected to it and which bridges the holes and is provided with the through-openings for the lubricant which open into the holes of the plate (4).

6. Device according to claim 3 and claim 4 or 5, characterized in that when the flow divider or flow dividers (16, 17) is or are formed in an I-shaped manner, the through-openings (18 - 21) which join the flow dividers (16, 17) in the other plate (4) with the lubricant delivery openings lie above the flanges (28 - 31) of the I-shaped flow dividers (16, 17), wherein a pair of through-openings (18 - 21) is preferably allocated to each flange (28 - 31), and in that each of these through-openings (18 - 21) opens into one of the cutouts (22, 23) which are preferably cut into the longitudinal edges (24, 25) of the plate (4) and which form the lubricant delivery openings.

7. Device according to one of claims 3 to 6, characterized in that a nipple which is provided with a male cone (52A) is inserted, preferably screwed, into the feed opening (12) of the bottom plate (2), and in that the male cone (52A) projects into a through-opening which opens into the groove (10) of the rail (1), another nipple (52) which is provided with a female cone (52B) corresponding to

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the male cone (52A) being inserted, preferably screwed, into this through-opening, and in that the female cone (52B) tightly contacts the male cone (52A).

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